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**From:** Deater, Shannan [deaters@kalamazoocity.org]  
**Sent:** 7/27/2018 8:48:51 PM  
**To:** Heather Bishop [bishoph@michigan.gov]; Speth, Thomas [Speth.Thomas@epa.gov]; Poy, Thomas [poy.thomas@epa.gov]  
**CC:** Graham, Lois (DEQ) [GRAHAML@michigan.gov]; Krisztian, George (DEQ) [krisztiang@michigan.gov]; Oswald, Eric (DEQ) [OswaldE1@michigan.gov]; Onan, Brandon (DEQ) [OnanB@michigan.gov]; Bloemker, Jon (DEQ) [BLOEMKERJ@michigan.gov]; Paquin, John [PaquinJ@kalamazoocity.org]; Public Works [parchmentdpw@gmail.com]; Baker, James [bakerj@kalamazoocity.org]; Johnson, Teresa [johnsont@kalamazoocity.org]; Skalski, Steve [skalskis@kalamazoocity.org]; Cornell, Jim [cornellj@kalamazoocity.org]  
**Subject:** RE: Proposed Sampling for Parchment PFAS Incident  
**Attachments:** Parchment PFAS.xlsx

Hello All,

The proposed schedule for the weekend and next week is attached, along with results for some of the parameters analyzed on the COK/Parchment distribution samples. Trace Analytical will have the remaining results from today's samples by the end of the day tomorrow and going forward, any in-house parameters will be reported daily. Contracted parameters from water quality samples taken over the weekend will be combined with Monday's samples and reported on Tuesday. Samples taken for lead/copper on Tuesday and/or Wednesday will be reported on a next day schedule. PFAS sampling will be performed Monday through Thursday on three Parchment distribution samples and reported within three days, if possible. AECOM will perform the sampling and send samples Vista Laboratories for analysis. Please let me know if I've missed anything we've discussed, or if you have any questions.

Thanks,

Shannan

***Shannan Deater***

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**From:** Bishop, Heather (DEQ) [mailto:BishopH@michigan.gov]  
**Sent:** Friday, July 27, 2018 2:34 PM  
**To:** speth.thomas@epa.gov; Poy, Thomas  
**Cc:** Graham, Lois (DEQ); Krisztian, George (DEQ); Oswald, Eric (DEQ); Onan, Brandon (DEQ); Bloemker, Jon (DEQ); Paquin, John; Public Works; Baker, James; Johnson, Teresa; Skalski, Steve; Deater, Shannan  
**Subject:** Proposed Sampling for Parchment PFAS Incident

Good Afternoon Mr. Speth and Mr. Poy,

The City of Kalamazoo and City of Parchment water supplies are currently connected via three locations. Kalamazoo is utilizing fire truck pumps, pumping hydrant to hydrant, to maintain pressure in the Parchment distribution system. The Parchment wells have been removed from service. We would like to begin systematically flushing the Parchment system with Kalamazoo water. We have collectively agreed on the following sampling plan:

Prior to flushing, the following samples will be collected at three locations in Parchment, and two locations in Kalamazoo:

Cl<sub>2</sub>, Chloride, Sulfate, Iron, Alkalinity, ortho, manganese, pH, Calcium, temp

Kalamazoo is going to test as many parameters as possible in house, and then we will review that data. After we review and approve of the data, a systematic flushing protocol will then commence. We anticipate flushing process will take 16-24 hours to fully turn over the system; this will be done at the discretion of the two water supplies (based on system pressure and pumping capabilities). The flushing is intended to stabilize the water quality to assist in the analysis of determining Kalamazoo water is present in the entire Parchment distribution system.

As the system is being turn over, the water quality parameter samples will be collected two times per day. Then we will move to sampling three times a week, two times a week, etc.

After the water is turned over, Parchment distribution PFAS sampling will begin. The City of Kalamazoo is making arrangements for AECOM to collect the samples as soon as practical. The three distribution locations in Parchment are planned for this sampling. They will sample every day until we get our first sample result back, approximately 3-4 days. Further sampling will be based on results.

Starting Tuesday or Wednesday Lead Copper sampling will begin from the existing Parchment sampling pool. One first draw sample will be collected at each address. Further sampling will be evaluated as results come in.

#### Parchment Sampling locations

202 N. Riverview Parchment professional building (routine bacteria location)

648 N Riverview Drive Speedway Gas station (routine bacteria location)

300 Maple Dept Public Works shop (routine bacteria location)

724 Shoppers Lane (back up/additional site if needed; routine DBP location)

#### Kalamazoo Sampling Locations

Mt. Olivet Tower

Fire Station Number 3

Please let us know if you have any comments on the plan.

Heather Bishop

Brandon Onan

Jon Bloemker

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**From:** Lachance, Amy (DEQ)

**Sent:** Friday, July 27, 2018 1:03 PM

**To:** Bishop, Heather (DEQ) <BishopH@michigan.gov>

**Subject:** Re: status

Not a requirement but if they don't get them shipped today, it will be next Thursday before results. Eric told Jon at noon that they may as well finish flushing.

Sent from my iPhone

On Jul 27, 2018, at 12:59 PM, Bishop, Heather (DEQ) <[BishopH@michigan.gov](mailto:BishopH@michigan.gov)> wrote:

Is the PFAS testing a requirement today?

Sent from my iPhone

On Jul 27, 2018, at 12:53 PM, Lachance, Amy (DEQ) <[LACHANCEA1@michigan.gov](mailto:LACHANCEA1@michigan.gov)> wrote:

We have a conference call at 2pm where we will need to report the status of the issues we have been dealing with. By then, please let me know (call if you want):

- Issues/concerns raised during press conference
- Status of flushing of Parchment system with Kzoo water – they want to get it flushed through and get PFAS samples today to send to lab.
- Outstanding concerns with regard to water quality changes in new source – short and long term

Next steps appear to be:

- Continuing to provide feedback to both supplies regarding the engineering and treatment specifics of the switchover – need orthophosphate boost? Is this a long term solution?
- Working on a monitoring plan to verify water quality prior to lifting the advisory.
  - PFAS, L&C, Bacti/CI Res./DBP(?)
  - How many rounds?
  - What PFAS levels are acceptable?

Thanks - Amy

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